

PTO/SB/08A (08-03)

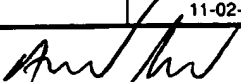
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete If Known</b>			
		Application Number	10/722,837		
		Filing Date	November 26, 2003		
		First Named Inventor	Hwang, Yean-Yow		
		Art Unit	3739		
Sheet	1	of	9	Examiner Name	Unassigned
				Attorney Docket Number	022001-000902US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
A	0001	US-977,825	12-06-1910	Murphy	
	0002	US-3,171,549	03-02-1965	Orloff	
	0003	US-3,280,991	10-25-1966	Melton et al.	
	0004	US-4,058,001	11-15-1977	Waxman	
	0005	US-4,128,880	12-05-1978	Cray, Jr.	
	0006	US-4,221,997	09-09-1980	Flemming	
	0007	US-4,367,998	01-11-1983	Causer	
	0008	US-4,401,852	08-30-1983	Noso et al.	
	0009	US-4,456,961	06-26-1984	Price et al.	
	0010	US-4,460,302	07-17-1984	Moreau et al.	
	0011	US-4,474,174	10-02-1984	Petruzzi	
	0011	US-4,750,136	06-07-1988	Arpin	
	0012	US-4,491,135	01-01-1985	Klein	
	0013	US-4,503,854	03-12-1985	Jako	
	0014	US-4,517,963	05-21-1985	Michel	
	0015	US-4,523,884	06-18-1985	Clement et al.	
	0016	US-4,586,398	05-06-1986	Yindra	
	0017	US-4,604,016	08-05-1986	Joyce	
	0018	US-4,616,637	10-14-1986	Caspari et al.	
	0019	US-4,624,011	11-18-1986	Watanabe et al.	
	0020	US-4,633,389	12-30-1986	Tanaka et al.	
	0021	US-4,635,292	01-06-1987	Mori et al.	
	0022	US-4,641,292	02-03-1987	Tunnell et al.	
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	0024	US-4,672,963	06-16-1987	Batten	
	0025	US-4,676,243	06-30-1987	Clayman	
	0026	US-4,728,974	03-01-1988	Nio et al.	
	0027	US-4,762,455	08-09-1988	Coughlan et al.	
	0028	US-4,791,934	12-20-1988	Brunnett	
	0029	US-4,791,940	12-20-1988	Hirschfeld et al.	
	0030	US-4,794,912	01-03-1989	Lia	
	0031	US-4,815,006	03-21-1989	Andersson et al.	
	0032	US-4,815,450	03-28-1989	Patel	
	0033	US-4,837,734	06-06-1989	Ichikawa et al.	
	0034	US-4,852,083	07-25-1989	Niehaus et al.	
	0035	US-4,853,874	08-01-1989	Iwamoto et al.	
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	0037	US-4,860,215	08-22-1989	Seraji	
	0038	US-4,863,133	09-05-1989	Bonnell	
	0039	US-4,883,400	11-28-1989	Kuban et al.	
	0040	US-4,930,494	06-05-1990	Takehana et al.	
Examiner Signature				Date Considered	5/10/05

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete If Known</b>			
		Application Number	10/722,837		
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		Art Unit	3739		
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Sheet	2	of	9	Attorney Docket Number	022001-000902US


U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number Kind Code <sup>2</sup> (if known)				
✓	0041	US-4,945,479	07-31-1990	Rusterholz et al.		
	0042	US-4,949,717	08-21-1990	Shaw		
	0043	US-4,954,952	09-04-1990	Ubhayakar et al.		
	0044	US-4,965,417	10-23-1990	Massie		
	0045	US-4,969,709	11-13-1990	Sogawa et al.		
	0046	US-4,969,890	11-13-1990	Sugita et al.		
	0047	US-4,979,933	12-25-1990	Runge		
	0048	US-4,979,949	12-25-1990	Matsen, III et al.		
	0049	US-4,980,626	12-25-1990	Hess et al.		
	0050	US-4,989,253	01-29-1991	Liang et al.		
	0051	US-4,996,975	03-05-1991	Nakamura		
	0052	US-5,019,968	05-28-1991	Wang et al.		
	0053	US-5,020,001	05-28-1991	Yamamoto et al.		
	0054	US-5,065,741	11-19-1991	Uchiyama et al.		
	0055	US-5,078,140	01-07-1992	Kwoh		
	0056	US-5,086,401	02-04-1992	Glassman et al.		
	0057	US-5,091,656	02-25-1992	Gahn		
	0058	US-5,097,829	03-24-1992	Quisenberry		
	0059	US-5,097,839	03-24-1992	Allen		
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	0061	US-5,105,367	04-14-1992	Tsuchihashi et al.		
	0062	US-5,109,499	04-28-1992	Inagami et al.		
	0063	US-5,123,095	06-16-1992	Papadopoulos et al.		
	0064	US-5,131,105	07-21-1992	Harrawood et al.		
	0065	US-5,142,930	09-01-1992	Allen et al.		
	0066	US-5,145,227	09-08-1992	Monford, Jr.		
	0067	US-5,166,513	11-24-1992	Keenan et al.		
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	0069	US-5,182,641	01-26-1993	Diner et al.		
	0070	US-5,184,601	02-09-1993	Putman		
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	0073	US-5,201,325	04-13-1993	McEwen et al.		
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	0075	US-5,217,003	06-08-1993	Wilk		
	0076	US-5,221,283	06-22-1993	Chang		
	0077	US-5,228,429	07-20-1993	Hatano		
	0078	US-5,230,623	07-27-1993	Guthrie et al.		
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	0080	US-5,251,127	10-05-1993	Raab		
	0081	US-5,257,999	11-02-1993	Slanetz, Jr.		
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A	0082	US-5,271,384	12-21-1993	McEwen et al.	
	0083	US-5,279,309	01-18-1994	Taylor et al.	
	0084	US-5,282,806	02-01-1994	Haber	
	0085	US-5,289,273	02-22-1994	Lang	
	0086	US-5,289,365	02-22-1994	Caldwell et al.	
	0087	US-5,299,288	03-29-1994	Glassman et al.	
	0088	US-5,300,926	04-05-1994	Stoeckl	
	0089	US-5,303,148	04-12-1994	Mattson et al.	
	0090	US-5,304,185	04-19-1994	Taylor	
	0091	US-5,305,203	04-19-1994	Raab	
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	0094	US-5,313,306	05-17-1994	Kuban et al.	
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	0097	US-5,337,732	08-16-1994	Grundfest et al.	
	0098	US-5,339,799	08-23-1994	Kami et al.	
	0099	US-5,343,385	08-30-1994	Joskowicz et al.	
	0100	US-5,343,391	08-30-1994	Mushabac	
	0101	US-5,345,538	09-06-1994	Narayannan et al.	
	0102	US-5,357,962	10-25-1994	Green	
	0103	US-5,368,015	11-29-1994	Wilk	
	0104	US-5,368,428	11-29-1994	Hussey et al.	
	0105	US-5,371,536	12-06-1994	Yamaguchi	
	0106	US-5,382,885	01-17-1995	Salcudean et al.	
	0107	US-5,388,987	02-14-1995	Badoz et al.	
	0108	US-5,395,369	03-07-1995	McBrayer et al.	
	0109	US-5,397,323	03-14-1995	Taylor et al.	
	0110	US-5,402,801	04-04-1995	Taylor	
	0111	US-5,403,319	04-04-1995	Matsen, III et al.	
	0112	US-5,408,409	04-18-1995	Glassman et al.	
	0113	US-5,410,638	04-25-1995	Colgate et al.	
	0114	US-5,417,210	05-23-1995	Funda et al.	
	0115	US-5,417,701	05-23-1995	Holmes	
	0116	US-5,422,521	06-06-1995	Neer et al.	
	0117	US-5,431,645	07-11-1995	Smith et al.	
	0118	US-5,434,457	07-18-1995	Josephs et al.	
	0119	US-5,442,728	08-15-1995	Kaufman et al.	
	0120	US-5,445,166	08-29-1995	Taylor	
	0121	US-5,445,166	08-29-1995	Taylor	
	0122	US-5,451,924	09-19-1995	Massimino et al.	

Examiner Signature		Date Considered	05/10/05
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A	0123	US-5,455,766	10-03-1995	Scheller et al.	
	0124	US-5,458,547	10-17-1995	Teraoka et al.	
	0125	US-5,458,574	10-17-1995	Machold et al.	
	0126	US-5,476,010	12-19-1995	Fleming et al.	
	0127	US-5,490,117	02-08-1996	Oda et al.	
	0128	US-5,506,912	04-09-1996	Nagasaki et al.	
	0129	US-5,512,919	04-30-1996	Araki	
	0130	US-5,515,478	05-07-1996	Wang	
	0131	US-5,544,654	08-13-1996	Murphy et al.	
	0132	US-5,553,198	09-03-1996	Wang et al.	
	0133	US-5,562,503	10-08-1996	Ellman et al.	
	0134	US-5,571,110	11-05-1996	Matsen, III et al.	
	0135	US-5,572,999	11-12-1996	Funda et al.	
	0136	US-5,609,560	03-11-1997	Ichikawa et al.	
	0137	US-5,626,595	05-06-1997	Sklar et al.	
	0138	US-5,629,594	05-13-1997	Jacobus et al.	
	0139	US-5,630,431	05-20-1997	Taylor	
	0140	US-5,631,973	05-20-1997	Green	
	0141	US-5,636,259	06-03-1997	Khutoryansky et al.	
	0142	US-5,649,956	07-22-1997	Jensen et al.	
	0143	US-5,657,429	08-12-1997	Wang et al.	
	0144	US-5,658,250	08-19-1997	Blomquist et al.	
	0145	US-5,676,673	10-14-1997	Ferre et al.	
	0146	US-5,695,500	12-09-1997	Taylor et al.	
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	0148	US-5,696,837	12-09-1997	Green	
	0149	US-5,718,038	02-17-1998	Takiar et al.	
	0150	US-5,727,569	03-17-1998	Benetti et al.	
	0151	US-5,735,290	04-07-1998	Sterman et al.	
	0152	US-5,737,711	04-07-1998	Abe	
	0153	US-5,774,741	06-30-1998	Salazar, et al.	
	0154	US-5,749,362	05-12-1998	Funda et al.	
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0157	US-5,776,126	07-07-1998	Wilk et al.		
0158	US-5,779,623	07-14-1998	Bonnell		
0159	US-5,792,135	08-11-1998	Madhani et al.		
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0161	US-5,797,900	08-25-1998	Madhani et al.		
0162	US-5,800,423	09-01-1998	Jensen		
0163	US-5,807,284	09-15-1998	Foxlin		

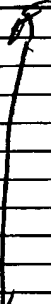
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A	0164	US-5,807,377		09-15-1998	Madhani et al.	
	0165	US-5,807,378		09-15-1998	Jensen et al.	
	0166	US-5,808,665		09-15-1998	Green	
	0167	US-5,810,880		09-22-1998	Jensen et al.	
	0168	US-5,813,813		09-29-1998	Daum et al.	
	0169	US-5,814,038		09-29-1998	Jensen et al.	
	0170	US-5,817,084		10-06-1998	Jensen	
	0171	US-5,825,982		10-20-1998	Wright et al.	
	0172	US-5,836,869		11-17-1998	Kudo et al.	
	0173	US-5,844,824		12-01-1998	Newman et al.	
	0174	US-5,855,583		01-05-1999	Wang et al.	
	0175	US-5,859,934		01-12-1999	Green	
	0176	US-5,860,995		01-19-1999	Berkelaar	
	0177	US-5,876,325		03-02-1999	Mizuno et al.	
	0178	US-5,878,193		03-02-1999	Wang et al.	
	0179	US-5,882,206		03-16-1999	Gillio	
	0180	US-5,887,121		03-23-1999	Funda et al.	
	0181	US-5,931,832		08-03-1999	Jensen	
0182	US-5,950,629		09-14-1999	Taylor et al.		
0183	US-5,971,976		10-26-1999	Wang et al.		
0184	US-6,024,695		02-15-2000	Taylor et al.		
0185	US-6,102,850		08-15-2000	Wang et al.		
✓	0186	US-6,278,975		08-21-2001	Brant et al.	

FOREIGN PATENT DOCUMENTS								
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		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code* (if known)				
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	0190	EP	0239409	A1	09-30-1987	Funakubo et al.		<input type="checkbox"/>
	0191	EP	0424687	A1	05-02-1991	Baum		
	0192	WO	97/15240		05-01-1997	Brant et al.		<input type="checkbox"/>
	0193	WO	94/26167		11-24-1994	Jensen		
	0194	WO	94/18881		09-01-1994	Sterman et al.		
	0195	WO	92/20295		11-26-1992	Koivukanqas		<input type="checkbox"/>
	0196	WO	93/13916		07-22-1993	Green		<input type="checkbox"/>
	0197	WO	91/04711		04-18-1991	Henrion et al.		<input type="checkbox"/>

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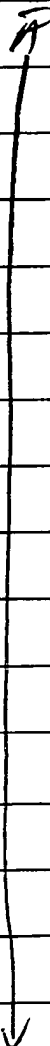
NON PATENT LITERATURE DOCUMENTS			
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A ↓	0198	"A Literature Review: Robots in Medicine" (B. PREISING et al.) IEEE June 1991	
	0199	"A New Microsurgical Robot System for Corneal Transplantation" (NORIYUKI TEJIMA), Precision Machinery 1988	
	0200	"A New System for Computer Assisted Neurosurgery" (S. LAVALLEE), IEEE 1989	
	0201	"A Robot in an Operating Room: A Bull in a China Shop" (J.M. DOLAN et al.), IEEE 1987	
	0202	"An Advanced Control Micromanipulator for Surgical Applications" (BEN GAYED et al.), Systems Science Vol. 13 1987	
	0203	"Analysis of the Surgeon's Grasp for Telerobotic Surgical Manipulation" (FRANK TENDICK and LAWRENCE STARK), IEEE 1989	
	0204	"Anthropomorphic Remote Manipulator", NASA Tech Briefs 1991	
	0205	"Controlling Remote Manipulators through Kinesthetic Coupling" (A.K. BEJCZY), Computers in Mechanical Engineering 1983	
	0206	"Design of a Surgeon-Machine Interface for Teleoperated Microsurgery" (STEVE CHARLES M.D. et al.), IEEE 1989	
	0207	"Force Feedback-Based Telemicromanipulation for Robot Surgery on Soft Tissues" (A.M. SABATINI et al.), IEEE 1989	
	0208	"Human/Robot Interaction via the Transfer of Power and Information Signals - Part I: Dynamics and Control Analysis" (H. KAZEROONI), IEEE 1989	
	0209	"Human/Robot Interaction via the Transfer of Power and Information Signals - Part II: An Experimental Analysis" (H. KAZEROONI), IEEE 1989	
	0210	"Kinematic Control and Visual Display of Redundant Teleoperators" (HARDI DAS et al.), IEEE 1989	
0211	"Motion Control for a Sheep Shearing Robot" (JAMES P. TREVELYAN et al.), Proceedings of the 1st International Symposium on Robotics Research, MIT, Cambridge, Massachusetts, USA, 1983		
0212	"On a Micro-Manipulator for Medical Application - Stability Consideration of its Bilateral Controller" (S. MAJIMA et al.), Mechatronics 1991		
↓	0213	"Power and Impedance Scaling in Bilateral Manipulation" (J. EDWARD COLGATE), IEEE 1991	

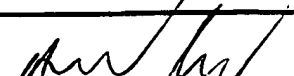
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/722,837		
		Filing Date	November 26, 2003		
		First Named Inventor	Hwang, Yean-Yow		
		Art Unit	3739		
		Examiner Name	Unassigned		
Sheet	7	of	9	Attorney Docket Number	022001-000902US

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	0214	"Properties of Master-Slave Robots" (C. Vibet), Motor-con 1987	
	0215	"Robots and Telechairs" (M.W. THRING), Wiley 1983	
	0216	"Robots for the Operating Room" (ELIZABETH CORCORAN), The New York Times, Sunday July 19, 1992, Section 3, Page 9, Column 1	
	0217	"S.M.O.S.: Stereotaxical Microtelemanipulator for Ocular Surgery" (AICHA GUERROUAD and PIERRE VIDAL), IEEE 1989	
	0218	"Six-Axis Bilateral Control of an Articulated Slave Manipulator Using a Cartesian Master Manipulator" (MASAO INOUE), Advanced Robotics 1990	
	0219	"Surgery in Cyberspace" (TAUBES), Discover Magazine, December 1994	
	0220	"Taming the Bull: Safety in a Precise Surgical Robot" (RUSSELL H. TAYLOR et al.), IEEE 1991	
	0221	Abstract of a presentation "3-D Vision Technology Applied to Advanced Minimally Invasive Surgery Systems" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 "Session 15/3" (1 page total).	
	0222	Abstract of a presentation "A Pneumatic Controlled Sewing Device for Endoscopic Application the MIS Sewing Instrument MSI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).	
	0223	Abstract of a presentation "Camera Control for Laparoscopic Surgery by Speech-Recognizing Robot: Constant Attention and Better Use of Personnel" (COLIN BESANT et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).	
	0224	Abstract of a presentation "Concept and Experimental Application of a Surgical Robotic System the Steerable MIS Instrument SMI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).	
	0225	Abstract of a presentation "Design Considerations of a New Generation Endoscope Using Robotics and Computer Vision Technology" (S.M. KRISHNAN et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).	
	0226	Abstract of a presentation "Telepresence: Advanced Teleoperator Technology for Minimally Invasive Surgery", (P. GREEN et al.) given at "Medicine meets virtual reality" symposium in San Diego, June 4-7, 1992 (20 pages total)	
	0227	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992, entitled "Session 15/1" (1 page total).	
	0228	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/2" (1 page total).	
	0229	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/4" (1 page total).	

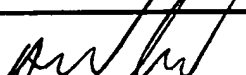
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A	0230	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/5" (1 page total).	
	0231	Abstract of a presentation "Telepresence: Advanced Teleoperator Technology for Minimally Invasive Surgery" (P. GREEN et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (2 pages total)	
	0232	Industrial Robotics (GORDON M. MAIR), Prentice Hall 1988 (pp. 41-43, 49-50, 54, 203-209 enclosed)	
	0233	Statutory Declaration of Dr. Philip S. Green, presenter of the video entitled "Telepresence Surgery - The Future of Minimally Invasive Medicine"	
	0234	Transcript of a video presented by SRI at the 3rd World Congress of Endoscopic Surgery in Bordeaux on June 18-20, 1992, in Washington on April 9, 1992, and in San Diego, CA on June 4-7, 1992 entitled "Telepresence Surgery - The Future of Minimally Invasive Medicine"	
✓	0235	Wolf et al. (1990) "Student Reference Manual for Electronic Instrumentation Laboratories," 498-499.	

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